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*Reverse*

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

P O Box 2440  
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AGRICULTURE  
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# **WATER SUPPLY OUTLOOK FOR WYOMING**

**U.S. DEPARTMENT OF AGRICULTURE \* SOIL CONSERVATION SERVICE**  
Collaborating with  
**STATE ENGINEER OF WYOMING**



AS OF  
**JUNE 1, 1980**

*"The Conservation of Water begins with the Snow Survey"*



# BASIC DATA

## CORRECTIONS AND ADDITIONS

### SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST RECORD		
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
		Last Yr.	Ave.	+	
<u>MARCH 1, 1980</u>					
Canyon	3/03	46	<u>11.6</u>	14.4	14.3
East Rim Divide	2/27	41	<u>10.2e</u>	13.7	12.0
Gros Ventre Summit	2/27	32	<u>7.9e</u>	9.9	10.1
Kendall R.S.	2/27	38	<u>10.0e</u>	13.7	11.2
Lake Camp	3/02	28	<u>7.0</u>	10.2	8.3
Medicine Lodge Lakes	3/08	35	<u>10.9</u>	11.5	9.9
Muddy Creek G.S.	3/08	17	<u>7.0</u>	4.3	2.8
New Fork Lake	2/27	33	<u>8.4e</u>	12.4	10.0
Norris Basin	2/28	32	<u>8.5</u>	8.4	10.1
Old Battle	3/03	102	<u>34.3</u>	43.7	28.5
Onion Gulch	3/08	26	<u>9.0</u>	7.4	7.8
Powder River Pass	3/08	32	<u>10.4</u>	10.8	10.2
Ranger Creek	3/02	<u>28</u>	5.8	8.5	8.7
Shell Creek	3/08	40	12.7	11.3	12.5
Soldier Park	3/08	23	9.0	5.4	4.6
Sour Dough	3/08	26	9.5	6.2	5.5
Tyrell R.S.	3/08	25	8.9	8.0	7.5
Whiskey Creek	2/26	92	27.9	-	-

### SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST RECORD		
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
	Last Yr.	Ave.	+		
<u>APRIL 1, 1980</u>					
Deep Lake	3/27	-	43.1e	41.0	40.9*
Moss Lake	3/27	-	27.3e	26.6	25.7*
Old Battle (April 1 value estimated from measurement taken on 4/8.	4/01	-	39.2e	43.6	34.2
Old Battle - April 8	4/08	116	41.2	-	-
Purgatory Gulch	4/08	-	13.1e	-	11.7*
Rock Creek	3/27	-	28.3e	28.4	28.3
Webber Springs (April 1 value estimated from measurement taken on 4/8.	4/01	-	27.0e	29.6	21.5
Webber Springs - April 8	4/08	83	29.0	-	-

e - estimated

\* - less than 15 years

Corrected values are underlined.

### PRECIPITATION (Inches) FOR MONTH OF MAY

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average
Bald Mountain	9380	6/01	6.10 S	3.50 S	-
Big Sandy Opening	9080	6/01	5.20 S	1.60 S	2.41
Blind Bull Summit	8650	6/01	5.20 S	1.80 S	-
Bone Springs Divide	9350	6/01	5.90 S	3.50 S	-
Burroughs Creek	8750	6/01	2.90 S	3.20 S	-
Carter Mountain	7950	5/30	4.80	2.80	2.29*
Casper Mountain	7850	6/02	4.56	2.31	4.16*
Dome Lake	8870	6/01	5.90 S	3.60 S	-
Grassy Lake	7265	5/30	6.30	1.91	4.29
Grover Park Divide	7000	5/29	5.55	2.20	2.50*
Hobbs Park	10100	6/01	7.30 S	4.60 S	-
Kelley Ranger Station	8180	5/30	5.00 E	2.70	2.31*
Lewis Lake Divide	7850	5/30	5.00	1.78	3.38*
Little Warm	9620	6/01	4.00 S	2.80 S	-
Moran (NWS)	6500	5/31	3.76	0.63	1.81
North French Creek	10125	6/01	5.60 S	2.90 S	3.52*
Old Battle	9920	6/01	6.10 ES	4.10 S	3.43*
Powder River Pass	9480	5/29	4.50	4.00	2.93
Salt River Summit	7700	5/29	5.07	1.19	1.52
Shell Creek	9580	6/01	5.40 S	4.30	-
Snake River Station (NWS)	6920	5/31	4.77	1.04	2.32
South Brush Creek	8440	6/01	4.50 S	-	-
Spring Creek Divide	9000	6/01	5.30 S	2.90	-
Sucker Creek	8880	6/01	4.40 S	-	-
Timber Creek	7950	5/29	7.40	3.50	3.30*
Togwotee Pass	9580	5/30	4.50	3.02	3.52
Warren Peak	6520	5/29	3.12	1.25	2.34*
Webber Spring	9250	6/01	4.10 S	2.40 S	-

S SNOTEL terminal reading

E Estimated

\* Less than 15 years

# BASIC DATA

## SUPPLEMENTAL MEASUREMENTS

### SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
	Last Yr.	Ave.	+	Last Yr.	Ave. +
<u>DECEMBER 15, 1979</u>					
Carter Mountain	12/14	7	1.4	3.2	-
East Entrance	12/15	13	1.3	5.0	-
Grassy Lake	12/17	23	6.0	12.5	-
Lewis Lake Divide	12/17	27	6.5	12.0	-
Marquette Creek	12/14	8	2.0	5.2	-
Sylvan Pass	12/15	16	2.2	4.8	-
Togwotee Pass	12/17	28	6.5	7.0	-
Wolverine	12/12	14	2.4	5.9	-
<u>JANUARY 1, 1980</u>					
Afton R.S.	12/26	10	0.8	2.8	1.8*
Arizona	12/27	23	4.0	9.6	7.6
Aster Creek	12/26	31	5.6	11.8	12.1
Base Camp	12/27	19	3.0	10.9	8.2
Canyon	12/31	21	3.0	8.4	6.5*
Carter Mountain	12/31	12	1.9	3.2	-
Casper Mountain	1/04	28	8.4	4.7	6.3
CCC Camp	12/26	15	2.0	6.0	4.9
Darby Canyon	1/03	28	6.0	10.0	9.5e
East Entrance	1/02	15	3.2e	6.7	4.4
Fisher Creek	12/31	-	11.0e	17.5	17.7e
Freds Mountain	12/27	27	6.0	9.2	8.6e
Glade Creek	12/26	26	4.3	10.7	8.8
Grassy Lake	12/26	34	7.1	15.8	14.4
Greys Boundary	12/27	11	1.2	6.6	4.0
Grover Park Divide	12/27	14	1.6	5.2	4.5
Huckleberry Divide	12/27	27	5.2	11.9	8.7
Indian Meadows	12/28	41	11.0	14.1	-
Jackpine Creek	12/28	23	5.2	8.8	-
Lake Camp	1/01	11	1.5	5.3	3.6
Lewis Lake Divide	12/26	41	8.3	16.1	16.5
Lupine Creek	1/04	14	2.5	5.6	4.8
Mallo Pillow	12/27	-	2.4	-	-
Marquette Creek	12/30	15	2.3	5.1	-
Moran	12/27	13	1.4	7.8	5.2
Mount Tom Pillow	1/02	-	0.1	-	-
Norris Basin	1/03	15	2.0	6.6	5.0
Northeast Entrance	12/30	10	1.9	5.3	3.7
Old Faithful	12/30	16	2.7	7.0	-
Salt River Summit	12/26	19	2.8	8.4	5.9
Snake River Station	12/26	25	4.3	9.7	8.0
Snow King Mountain	- No Report	-	9.2	6.3	
Sweetwater Mtn. Pillow	12/27	-	1.8	-	-
Sylvan Pass	1/02	18	3.8	6.8	5.9
Thumb Divide	12/26	25	3.8	8.2	8.6
Togwotee Pass	12/27	30	7.5	14.3	13.4*
Twenty-One Mile	12/27	19	3.6	6.3	7.8
West Yellowstone	12/27	17	2.6	4.8	5.1
White Mill	12/31	-	7.0e	14.2	13.8e
Wolverine	12/27	17	4.2	9.2	-

e Estimated

\* Less than 15 years

### SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
	Last Yr.	Ave.	+	Last Yr.	Ave. +
<u>MAY 15, 1980</u>					
Brooklyn Lake	5/14	67	29.7	-	-
Casper Mountain	5/14	40	15.1	-	17.8*
North Barrett Creek	5/15	-	24.6e	-	21.9*
North French Cr. Pillow	5/15	-	33.6e	30.2	26.5
Old Battle	5/15	-	43.7e	44.0e	36.3
Rock Creek	5/15	-	37.3e	-	-
Ryan Park	5/15	-	1.2e	-	4.2*
South Brush Creek	5/15	-	6.5e	-	-
Webber Springs	5/15	-	16.4e	19.0e	13.2
<u>JUNE 1, 1980</u>					
Brooklyn Lake	5/30	49	25.2	-	-
Casper Mountain	6/02	0	0.0	0.0	-
Grassy Lake	5/30	0	0.0	10.2	16.0*
Lewis Lake Divide	5/30	38	18.3	23.1	35.9*
North Barrett Creek	6/01	-	20.8e	-	13.2*
North French Cr. Pillow	6/01	-	24.0e	18.9	18.6*
Old Battle	6/01	-	29.8e	44.0e	36.3*
Ryan Park	6/01	-	0.0e	-	-
South Brush Cr. Pillow	6/01	-	0.0	-	-
Togwotee Pass	5/30	41	20.0	16.6	31.5*
Webber Springs	6/01	-	6.0e	19.0e	13.2

e Value estimated for snow course using SNOTEL data.

\* Less than 15 years in period.